

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

**(19) World Intellectual Property Organization
International Bureau**



**(43) International Publication Date
6 May 2004 (06.05.2004)**

PCT

(10) International Publication Number
WO 2004/038409 A3

(51) International Patent Classification⁷: G01N 33/487

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(21) International Application Number: PCT/EP2003/015044

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(22) International Filing Date: 28 August 2003 (28.08.2003)

(81) Designated States (*national*): CN, JP, US.

(25) Filing Language: English

(84) Designated States (regional): European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR).

(26) Publication Language: English

(30) Priority Data: 02/10663 28 August 2002 (28.08.2002) FR

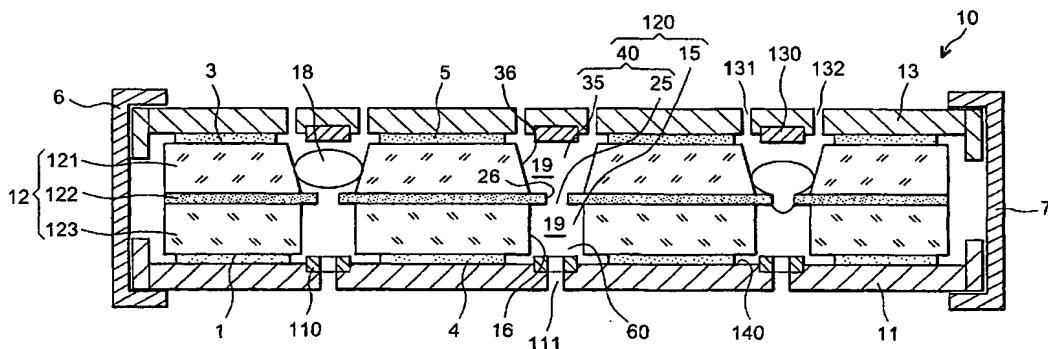
Published:

- with international search report
 - before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:
4 November 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: DEVICE FOR MEASURING THE ELECTRICAL ACTIVITY OF BIOLOGICAL ELEMENTS AND ITS APPLICATIONS



(57) **Abstract:** The invention relates to a device for measuring the electrical activity of biological elements, comprising a substrate (12) which has lower and upper faces and at least one through opening (120), said opening being delimited by a set of walls, and characterized in that: it comprises two plates (11, 13) placed on either side of the lower and upper faces of the substrate and delimiting with said set of walls a chamber (19); each of the plates is provided, on its face lying opposite the substrate, with at least one electrode (110, 130) facing the opening in the substrate; each of the plates further has at least one channel that starts inside said chamber and connects the latter to the outside of the device; and the chamber communicates with the outside of the device only through said channels.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/15044

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G01N33/487

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 97/16726 A (CHIRON DIAGNOSTICS CORP ; SULLIVAN KEVIN J (US)) 9 May 1997 (1997-05-09) page 3, line 28 - page 5, line 26; figure 1 ----- A. US 5 643 742 A (HUBER OSKAR WERNER ET AL) 1 July 1997 (1997-07-01) abstract column 4, line 1 - line 57; figures 1-3 ----- A. US 6 315 940 B1 (EGERT ULRICH ET AL) 13 November 2001 (2001-11-13) abstract column 5, line 52 - column 8, line 23; figures 1-3 -----	1 1-42 1-42

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

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Date of the actual completion of the international search

13 September 2004

Date of mailing of the international search report

20/09/2004

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/15044

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